



SEQUENCE LISTING

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<120> Molecular Interactions in Hematopoietic  
Cells

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sequence of CD138

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<223> PL motif, PDZ domain binding motif, C-terminal
sequence of CD138

<400> 93
Thr Lys Gln Glu Glu Phe Tyr Ala
1          5

<210> 94
<211> 4
<212> PRT
<213> Artificial Sequence

<220>
<223> PL motif, PDZ domain binding motif, C-terminal
core sequence of CDw125

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    <400> 94
Asp Ser Val Phe
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    <210> 95
    <211> 5
    <212> PRT
    <213> Artificial Sequence

    <220>
    <223> PL motif, PDZ domain binding motif, C-terminal
            sequence of CDw125

    <400> 95
Glu Asp Ser Val Phe
1             5

    <210> 96
    <211> 6
    <212> PRT
    <213> Artificial Sequence

    <220>
    <223> PL motif, PDZ domain binding motif, C-terminal
            sequence of CDw125

    <400> 96
Leu Glu Asp Ser Val Phe
1             5

    <210> 97
    <211> 7
    <212> PRT
    <213> Artificial Sequence

    <220>
    <223> PL motif, PDZ domain binding motif, C-terminal
            sequence of CDw125

    <400> 97
Thr Leu Glu Asp Ser Val Phe
1             5

    <210> 98
    <211> 8
    <212> PRT
    <213> Artificial Sequence

    <220>
    <223> PL motif, PDZ domain binding motif, C-terminal
            sequence of CDw125

    <400> 98
Glu Thr Leu Glu Asp Ser Val Phe
1             5

    <210> 99
    <211> 4
    <212> PRT
    <213> Artificial Sequence

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    <220>
    <223> PL motif, PDZ domain binding motif, C-terminal
           core sequence of CD56

    <400> 99
Glu Ser Lys Ala
1

    <210> 100
    <211> 5
    <212> PRT
    <213> Artificial Sequence

    <220>
    <223> PL motif, PDZ domain binding motif, C-terminal
           sequence of CD56

    <400> 100
Asn Glu Ser Lys Ala
1           5

    <210> 101
    <211> 6
    <212> PRT
    <213> Artificial Sequence

    <220>
    <223> PL motif, PDZ domain binding motif, C-terminal
           sequence of CD56

    <400> 101
Glu Asn Glu Ser Lys Ala
1           5

    <210> 102
    <211> 7
    <212> PRT
    <213> Artificial Sequence

    <220>
    <223> PL motif, PDZ domain binding motif, C-terminal
           sequence of CD56

    <400> 102
Lys Glu Asn Glu Ser Lys Ala
1           5

    <210> 103
    <211> 8
    <212> PRT
    <213> Artificial Sequence

    <220>
    <223> PL motif, PDZ domain binding motif, C-terminal
           sequence of CD56

    <400> 103
Thr Lys Glu Asn Glu Ser Lys Ala
1           5

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<210> 104
<211> 4
<212> PRT
<213> Artificial Sequence

<220>
<223> PL motif, PDZ domain binding motif, C-terminal
      core sequence of CD44

<400> 104
Lys Ile Gly Val
1

<210> 105
<211> 5
<212> PRT
<213> Artificial Sequence

<220>
<223> PL motif, PDZ domain binding motif, C-terminal
      sequence of CD44

<400> 105
Met Lys Ile Gly Val
1           5

<210> 106
<211> 6
<212> PRT
<213> Artificial Sequence

<220>
<223> PL motif, PDZ domain binding motif, C-terminal
      sequence of CD44

<400> 106
Asp Met Lys Ile Gly Val
1           5

<210> 107
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> PL motif, PDZ domain binding motif, C-terminal
      sequence of CD44

<400> 107
Val Asp Met Lys Ile Gly Val
1           5

<210> 108
<211> 8
<212> PRT
<213> Artificial Sequence

<220>
<223> PL motif, PDZ domain binding motif, C-terminal
      sequence of CD44

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<400> 108  
Asn Val Asp Met Lys Ile Gly Val  
1 5

<210> 109  
<211> 4  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> PL motif, PDZ domain binding motif, C-terminal  
core sequence of CD46

<400> 109  
Phe Thr Ser Leu  
1

<210> 110  
<211> 5  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> PL motif, PDZ domain binding motif, C-terminal  
sequence of CD46

<400> 110  
Lys Phe Thr Ser Leu  
1 5

<210> 111  
<211> 6  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> PL motif, PDZ domain binding motif, C-terminal  
sequence of CD46

<400> 111  
Val Lys Phe Thr Ser Leu  
1 5

<210> 112  
<211> 7  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> PL motif, PDZ domain binding motif, C-terminal  
sequence of CD46

<400> 112  
Glu Val Lys Phe Thr Ser Leu  
1 5

<210> 113  
<211> 8  
<212> PRT  
<213> Artificial Sequence

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    <220>
    <223> PL motif, PDZ domain binding motif, C-terminal
           sequence of CD46, competitor peptide

    <400> 113
Arg Glu Val Lys Phe Thr Ser Leu
 1              5

    <210> 114
    <211> 4
    <212> PRT
    <213> Artificial Sequence

    <220>
    <223> PL motif, PDZ domain binding motif, C-terminal
           core sequence of CD61

    <400> 114
Lys Ser Leu Val
 1

    <210> 115
    <211> 5
    <212> PRT
    <213> Artificial Sequence

    <220>
    <223> PL motif, PDZ domain binding motif, C-terminal
           sequence of CD61

    <400> 115
Leu Lys Ser Leu Val
 1              5

    <210> 116
    <211> 6
    <212> PRT
    <213> Artificial Sequence

    <220>
    <223> PL motif, PDZ domain binding motif, C-terminal
           sequence of CD61

    <400> 116
Phe Leu Lys Ser Leu Val
 1              5

    <210> 117
    <211> 7
    <212> PRT
    <213> Artificial Sequence

    <220>
    <223> PL motif, PDZ domain binding motif, C-terminal
           sequence of CD61

    <400> 117
Arg Phe Leu Lys Ser Leu Val
 1              5

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<210> 118
<211> 8
<212> PRT
<213> Artificial Sequence

<220>
<223> PL motif, PDZ domain binding motif, C-terminal
sequence of CD61

<400> 118
Gly Arg Phe Leu Lys Ser Leu Val
1          5

<210> 119
<211> 4
<212> PRT
<213> Artificial Sequence

<220>
<223> PL motif, PDZ domain binding motif, C-terminal
core sequence of CD148

<400> 119
Gly Tyr Ile Ala
1

<210> 120
<211> 5
<212> PRT
<213> Artificial Sequence

<220>
<223> PL motif, PDZ domain binding motif, C-terminal
sequence of CD148

<400> 120
Asn Gly Tyr Ile Ala
1          5

<210> 121
<211> 6
<212> PRT
<213> Artificial Sequence

<220>
<223> PL motif, PDZ domain binding motif, C-terminal
sequence of CD148

<400> 121
Thr Asn Gly Tyr Ile Ala
1          5

<210> 122
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> PL motif, PDZ domain binding motif, C-terminal
sequence of CD148

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<400> 122  
 Lys Thr Asn Gly Tyr Ile Ala  
 1 5

<210> 123  
 <211> 8  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> PL motif, PDZ domain binding motif, C-terminal  
 sequence of CD148

<400> 123  
 Gly Lys Thr Asn Gly Tyr Ile Ala  
 1 5

<210> 124  
 <211> 4  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> PL motif, PDZ domain binding motif, C-terminal  
 core sequence of Ly-6

<400> 124  
 Gln Thr Leu Leu  
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<210> 125  
 <211> 5  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> PL motif, PDZ domain binding motif, C-terminal  
 sequence of Ly-6

<400> 125  
 Leu Gln Thr Leu Leu  
 1 5

<210> 126  
 <211> 6  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> PL motif, PDZ domain binding motif, C-terminal  
 sequence of Ly-6

<400> 126  
 Leu Leu Gln Thr Leu Leu  
 1 5

<210> 127  
 <211> 7  
 <212> PRT  
 <213> Artificial Sequence

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    <220>
    <223> PL motif, PDZ domain binding motif, C-terminal
           sequence of Ly-6

    <400> 127
Val Leu Leu Gln Thr Leu Leu
  1              5

    <210> 128
    <211> 8
    <212> PRT
    <213> Artificial Sequence

    <220>
    <223> PL motif, PDZ domain binding motif, C-terminal
           sequence of Ly-6

    <400> 128
Ser Val Leu Leu Gln Thr Leu Leu
  1              5

    <210> 129
    <211> 4
    <212> PRT
    <213> Artificial Sequence

    <220>
    <223> PL motif, PDZ domain binding motif, C-terminal
           core sequence of FcepsilonRIbeta

    <400> 129
Pro Ile Asp Leu
  1

    <210> 130
    <211> 5
    <212> PRT
    <213> Artificial Sequence

    <220>
    <223> PL motif, PDZ domain binding motif, C-terminal
           sequence of FcepsilonRIbeta

    <400> 130
Pro Pro Ile Asp Leu
  1              5

    <210> 131
    <211> 6
    <212> PRT
    <213> Artificial Sequence

    <220>
    <223> PL motif, PDZ domain binding motif, C-terminal
           sequence of FcepsilonRIbeta

    <400> 131
Ser Pro Pro Ile Asp Leu
  1              5

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<210> 132
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> PL motif, PDZ domain binding motif, C-terminal
sequence of FcepsilonRIbeta

<400> 132
Met Ser Pro Pro Ile Asp Leu
1          5

<210> 133
<211> 8
<212> PRT
<213> Artificial Sequence

<220>
<223> PL motif, PDZ domain binding motif, C-terminal
sequence of FcepsilonRIbeta

<400> 133
Glu Met Ser Pro Pro Ile Asp Leu
1          5

<210> 134
<211> 4
<212> PRT
<213> Artificial Sequence

<220>
<223> PL motif, PDZ domain binding motif, C-terminal
core sequence of galectin 3

<400> 134
Tyr Thr Met Ile
1

<210> 135
<211> 5
<212> PRT
<213> Artificial Sequence

<220>
<223> PL motif, PDZ domain binding motif, C-terminal
sequence of galectin 3

<400> 135
Ser Tyr Thr Met Ile
1          5

<210> 136
<211> 6
<212> PRT
<213> Artificial Sequence

<220>
<223> PL motif, PDZ domain binding motif, C-terminal
sequence of galectin 3

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<400> 136  
Ala Ser Tyr Thr Met Ile  
1 5

<210> 137  
<211> 7  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> PL motif, PDZ domain binding motif, C-terminal  
sequence of galectin 3

<400> 137  
Ser Ala Ser Tyr Thr Met Ile  
1 5

<210> 138  
<211> 8  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> PL motif, PDZ domain binding motif, C-terminal  
sequence of galectin 3

<400> 138  
Thr Ser Ala Ser Tyr Thr Met Ile  
1 5

<210> 139  
<211> 4  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> PL motif, PDZ domain binding motif, C-terminal  
core sequence of mannose receptor

<400> 139  
His Ser Val Ile  
1

<210> 140  
<211> 5  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> PL motif, PDZ domain binding motif, C-terminal  
sequence of mannose receptor

<400> 140  
Glu His Ser Val Ile  
1 5

<210> 141  
<211> 6  
<212> PRT  
<213> Artificial Sequence

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    <220>
    <223> PL motif, PDZ domain binding motif, C-terminal
           sequence of mannose receptor

    <400> 141
Asn Glu His Ser Val Ile
1           5

    <210> 142
    <211> 7
    <212> PRT
    <213> Artificial Sequence

    <220>
    <223> PL motif, PDZ domain binding motif, C-terminal
           sequence of mannose receptor

    <400> 142
Gln Asn Glu His Ser Val Ile
1           5

    <210> 143
    <211> 8
    <212> PRT
    <213> Artificial Sequence

    <220>
    <223> PL motif, PDZ domain binding motif, C-terminal
           sequence of mannose receptor

    <400> 143
Glu Gln Asn Glu His Ser Val Ile
1           5

    <210> 144
    <211> 4
    <212> PRT
    <213> Artificial Sequence

    <220>
    <223> PL motif, PDZ domain binding motif, C-terminal
           core sequence of G-CSFR

    <400> 144
Thr Ser Val Leu
1

    <210> 145
    <211> 5
    <212> PRT
    <213> Artificial Sequence

    <220>
    <223> PL motif, PDZ domain binding motif, C-terminal
           sequence of G-CSFR

    <400> 145
Ile Thr Ser Val Leu
1           5

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    <210> 146
    <211> 6
    <212> PRT
    <213> Artificial Sequence

    <220>
    <223> PL motif, PDZ domain binding motif, C-terminal
           sequence of G-CSFR

    <400> 146
Pro Ile Thr Ser Val Leu
1           5

    <210> 147
    <211> 7
    <212> PRT
    <213> Artificial Sequence

    <220>
    <223> PL motif, PDZ domain binding motif, C-terminal
           sequence of G-CSFR

    <400> 147
Phe Pro Ile Thr Ser Val Leu
1           5

    <210> 148
    <211> 8
    <212> PRT
    <213> Artificial Sequence

    <220>
    <223> PL motif, PDZ domain binding motif, C-terminal
           sequence of G-CSFR

    <400> 148
Leu Phe Pro Ile Thr Ser Val Leu
1           5

    <210> 149
    <211> 4
    <212> PRT
    <213> Artificial Sequence

    <220>
    <223> PL motif, PDZ domain binding motif, C-terminal
           core sequence of CD34

    <400> 149
Asp Thr Glu Leu
1

    <210> 150
    <211> 5
    <212> PRT
    <213> Artificial Sequence

    <220>
    <223> PL motif, PDZ domain binding motif, C-terminal
           sequence of CD34

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    <400> 150
Ala Asp Thr Glu Leu
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    <210> 151
    <211> 6
    <212> PRT
    <213> Artificial Sequence

    <220>
    <223> PL motif, PDZ domain binding motif, C-terminal
           sequence of CD34

    <400> 151
Val Ala Asp Thr Glu Leu
 1           5

    <210> 152
    <211> 7
    <212> PRT
    <213> Artificial Sequence

    <220>
    <223> PL motif, PDZ domain binding motif, C-terminal
           sequence of CD34

    <400> 152
Val Val Ala Asp Thr Glu Leu
 1           5

    <210> 153
    <211> 8
    <212> PRT
    <213> Artificial Sequence

    <220>
    <223> PL motif, PDZ domain binding motif, C-terminal
           sequence of CD34

    <400> 153
His Val Val Ala Asp Thr Glu Leu
 1           5

    <210> 154
    <211> 4
    <212> PRT
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    <220>
    <223> PL motif, PDZ domain binding motif, C-terminal
           core sequence of CD66b and CD66c

    <400> 154
Val Ala Leu Ile
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    <210> 155
    <211> 5
    <212> PRT
    <213> Artificial Sequence

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    <220>
    <223> PL motif, PDZ domain binding motif, C-terminal
           sequence of CD66b and CD66c

    <400> 155
Arg Val Ala Leu Ile
 1           5

    <210> 156
    <211> 6
    <212> PRT
    <213> Artificial Sequence

    <220>
    <223> PL motif, PDZ domain binding motif, C-terminal
           sequence of CD66b and CD66c

    <400> 156
Ala Arg Val Ala Leu Ile
 1           5

    <210> 157
    <211> 7
    <212> PRT
    <213> Artificial Sequence

    <220>
    <223> PL motif, PDZ domain binding motif, C-terminal
           sequence of CD66b and CD66c

    <400> 157
Leu Ala Arg Val Ala Leu Ile
 1           5

    <210> 158
    <211> 8
    <212> PRT
    <213> Artificial Sequence

    <220>
    <223> PL motif, PDZ domain binding motif, C-terminal
           sequence of CD66b and CD66c

    <400> 158
Val Leu Ala Arg Val Ala Leu Ile
 1           5

    <210> 159
    <211> 4
    <212> PRT
    <213> Artificial Sequence

    <220>
    <223> PL motif, PDZ domain binding motif, C-terminal
           core sequence of CD105

    <400> 159
Ser Ser Met Ala
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<210> 160
<211> 5
<212> PRT
<213> Artificial Sequence

<220>
<223> PL motif, PDZ domain binding motif, C-terminal
sequence of CD105

<400> 160
Thr Ser Ser Met Ala
1          5

<210> 161
<211> 6
<212> PRT
<213> Artificial Sequence

<220>
<223> PL motif, PDZ domain binding motif, C-terminal
sequence of CD105

<400> 161
Ser Thr Ser Ser Met Ala
1          5

<210> 162
<211> 8
<212> PRT
<213> Artificial Sequence

<220>
<223> PL motif, PDZ domain binding motif, C-terminal
sequence of CD105

<400> 162
Pro Cys Ser Thr Ser Ser Met Ala
1          5

<210> 163
<211> 4
<212> PRT
<213> Artificial Sequence

<220>
<223> PL motif, PDZ domain binding motif, C-terminal
core sequence of CD106

<400> 163
Lys Ser Lys Val
1

<210> 164
<211> 5
<212> PRT
<213> Artificial Sequence

<220>
<223> PL motif, PDZ domain binding motif, C-terminal
sequence of CD106

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<400> 164  
Gln Lys Ser Lys Val  
1 5

<210> 165  
<211> 6  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> PL motif, PDZ domain binding motif, C-terminal  
sequence of CD106

<400> 165  
Ala Gln Lys Ser Lys Val  
1 5

<210> 166  
<211> 7  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> PL motif, PDZ domain binding motif, C-terminal  
sequence of CD106

<400> 166  
Glu Ala Gln Lys Ser Lys Val  
1 5

<210> 167  
<211> 8  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> PL motif, PDZ domain binding motif, C-terminal  
sequence of CD106

<400> 167  
Val Glu Ala Gln Lys Ser Lys Val  
1 5

<210> 168  
<211> 4  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> PL motif, PDZ domain binding motif, C-terminal  
core sequence of CD62e

<400> 168  
Ser Tyr Ile Leu  
1

<210> 169  
<211> 5  
<212> PRT  
<213> Artificial Sequence

<220>  
 <223> PL motif, PDZ domain binding motif, C-terminal  
 sequence of CD62e

<400> 169  
 Pro Ser Tyr Ile Leu  
 1 5

<210> 170  
 <211> 6  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> PL motif, PDZ domain binding motif, C-terminal  
 sequence of CD62e

<400> 170  
 Lys Pro Ser Tyr Ile Leu  
 1 5

<210> 171  
 <211> 7  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> PL motif, PDZ domain binding motif, C-terminal  
 sequence of CD62e

<400> 171  
 Gln Lys Pro Ser Tyr Ile Leu  
 1 5

<210> 172  
 <211> 8  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> PL motif, PDZ domain binding motif, C-terminal  
 sequence of CD62e

<400> 172  
 Tyr Gln Lys Pro Ser Tyr Ile Leu  
 1 5

<210> 173  
 <211> 13  
 <212> PRT  
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<220>  
 <223> truncated HIV tat peptide

<400> 173  
 Gly Tyr Gly Arg Lys Lys Arg Arg Gln Arg Arg Arg Gly  
 1 5 10

<210> 174  
 <211> 21  
 <212> PRT  
 <213> Artificial Sequence  
  
 <220>  
 <223> Tat-CD3 carboxyl terminus fusion peptide  
  
 <400> 174  
 Gly Tyr Gly Arg Lys Lys Arg Arg Gln Arg Arg Arg Gly Pro Pro Ser  
 1 5 10 15  
 Ser Ser Ser Gly Leu  
 20  
  
 <210> 175  
 <211> 21  
 <212> PRT  
 <213> Artificial Sequence  
  
 <220>  
 <223> Tat-CLASP1 carboxyl terminus fusion peptide  
  
 <400> 175  
 Gly Tyr Gly Arg Lys Lys Arg Arg Gln Arg Arg Arg Gly Ser Ile Ser  
 1 5 10 15  
 Ser Ser Ala Glu Val  
 20  
  
 <210> 176  
 <211> 21  
 <212> PRT  
 <213> Artificial Sequence  
  
 <220>  
 <223> Tat-CLASP2 carboxyl terminus fusion peptide  
  
 <400> 176  
 Gly Tyr Gly Arg Lys Lys Arg Arg Gln Arg Arg Arg Gly Met Thr Ser  
 1 5 10 15  
 Ser Ser Ser Val Val  
 20  
  
 <210> 177  
 <211> 19  
 <212> PRT  
 <213> Artificial Sequence  
  
 <220>  
 <223> AA1L Clasp-1 PL peptide  
  
 <400> 177  
 Ile Ser Lys Ala Thr Pro Ala Leu Pro Thr Val Ser Ile Ser Ser Ser  
 1 5 10 15  
 Ala Glu Val  
  
 <210> 178  
 <211> 20  
 <212> PRT  
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<220>  
 <223> AA2L Clasp-2 PL peptide  
  
 <400> 178  
 Ile Ser Gly Thr Pro Thr Ser Thr Met Val His Gly Met Thr Ser Ser  
 1 5 10 15  
 Ser Ser Val Val  
 20  
  
 <210> 179  
 <211> 20  
 <212> PRT  
 <213> Artificial Sequence  
  
 <220>  
 <223> AA3L Clasp-4 PL peptide  
  
 <400> 179  
 Cys Ala Ile Ser Gly Thr Ser Ser Asp Arg Gly Tyr Gly Ser Pro Arg  
 1 5 10 15  
 Tyr Ala Glu Val  
 20  
  
 <210> 180  
 <211> 20  
 <212> PRT  
 <213> Artificial Sequence  
  
 <220>  
 <223> AA4L CD3beta PL peptide  
  
 <400> 180  
 Ser Val Phe Ser Ile Pro Thr Leu Trp Ser Pro Trp Pro Pro Ser Ser  
 1 5 10 15  
 Ser Ser Gln Leu  
 20  
  
 <210> 181  
 <211> 19  
 <212> PRT  
 <213> Artificial Sequence  
  
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 <223> AA5L-M CD4 PL peptide  
  
 <400> 181  
 Ser Glu Lys Lys Thr Ser Gln Ser Pro His Arg Phe Gln Lys Thr Cys  
 1 5 10 15  
 Ser Pro Ile  
  
  
 <210> 182  
 <211> 18  
 <212> PRT  
 <213> Artificial Sequence  
  
 <220>  
 <223> AA6L CD6 PL peptide



<400> 182  
 Ser Pro Gln Pro Asp Ser Thr Asp Asn Asp Asp Tyr Asp Asp Ile Ser  
 1 5 10 15  
 Ala Ala

<210> 183  
 <211> 20  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> AA7L CD34 PL peptide

<400> 183  
 Gln Ala Thr Ser Arg Asn Gly His Ser Ala Arg Gln His Val Val Ala  
 1 5 10 15  
 Asp Thr Glu Leu  
 20

<210> 184  
 <211> 20  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> AA9L CD44 PL peptide

<400> 184  
 Gln Phe Met Thr Ala Asp Glu Thr Arg Asn Leu Gln Asn Val Asp Met  
 1 5 10 15  
 Lys Ile Gly Val  
 20

<210> 185  
 <211> 19  
 <212> PRT  
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<220>  
 <223> AA10L CD46 (form 1) PL peptide

<400> 185  
 Lys Lys Gly Thr Tyr Leu Thr Asp Glu Thr His Arg Glu Val Lys Phe  
 1 5 10 15  
 Thr Ser Leu

<210> 186  
 <211> 19  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> AA11L CD49e PL peptide

<400> 186  
 Pro Tyr Gly Thr Ala Met Glu Lys Ala Gln Leu Lys Pro Pro Ala Thr  
 1 5 10 15  
 Ser Asp Ala

<210> 187  
 <211> 19  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> AA12L CD49f PL peptide

<400> 187  
 His Lys Ala Glu Ile His Ala Gln Pro Ser Asp Lys Glu Arg Leu Thr  
 1 5 10 15  
 Ser Asp Ala

<210> 188  
 <211> 20  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> AA13L CD95 PL peptide

<400> 188  
 Lys Asp Ile Thr Ser Asp Ser Glu Asn Ser Asn Phe Arg Asn Glu Ile  
 1 5 10 15  
 Gln Ser Leu Val  
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<210> 189  
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<220>  
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<400> 189  
 Thr Ser Gly Thr Gly His Asn Gln Thr Arg Ala Leu Arg Ala Ser Glu  
 1 5 10 15  
 Ser Gly Ile

<210> 190  
 <211> 19  
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<220>  
 <223> AA15L CD98 PL peptide

<400> 190  
 Glu Arg Leu Lys Leu Glu Pro His Glu Gly Leu Leu Leu Arg Phe Pro  
 1 5 10 15  
 Tyr Ala Ala

<210> 191  
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<220>  
 <223> AA16L CD105 PL peptide  
  
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 1 5 10 15  
 Ser Ser Met Ala  
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 <210> 192  
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 1. 5 10 15  
 Lys Ser Lys Val  
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 <210> 193  
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 <223> AA18L CD138 PL peptide  
  
 <400> 193  
 Pro Lys Gln Ala Asn Gly Gly Ala Tyr Gln Lys Pro Thr Lys Gln Glu  
 1 5 10 15  
 Glu Phe Tyr Ala  
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 <220>  
 <223> AA19L CD148 PL peptide  
  
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 Glu Asn Leu Ala Pro Val Thr Thr Phe Gly Lys Thr Asn Gly Tyr Ile  
 1 5 10 15  
 Ala  
  
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 <223> AA20L CD166 PL peptide

<400> 195  
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 1 5 10 15  
 Lys Thr Glu Ala  
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<210> 196  
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<220>  
 <223> AA22L DNAM-1 PL peptide

<400> 196  
 Thr Arg Glu Asp Ile Tyr Val Asn Tyr Pro Thr Phe Ser Arg Arg Pro  
 1 5 10 15  
 Lys Thr Arg Val  
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<210> 197  
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<220>  
 <223> AA23L-M FasL PL peptide

<400> 197  
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 1 5 10 15  
 Tyr Lys Leu

<210> 198  
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<220>  
 <223> AA25L FcepsilonRIbeta PL peptide

<400> 198  
 Tyr Ser Ala Thr Tyr Ser Glu Leu Glu Asp Pro Gly Glu Met Ser Pro  
 1 5 10 15  
 Pro Ile Asp Leu  
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<210> 199  
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<220>  
 <223> AA28L CDw125 (IL5R) PL peptide

<400> 199  
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 1 5 10 15  
 Ser Val Phe

<210> 200  
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 <223> AA29.1L CDw128A (IL8RA) PL peptide  
  
 <400> 200  
 Ala Arg His Arg Val Thr Ser Tyr Thr Ser Ser Ser Val Asn Val Ser  
 1 5 10 15  
 Ser Asn Leu  
  
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 <223> AA29.2L CD128B (IL8RB) PL peptide  
  
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 Lys Asp Ser Arg Pro Ser Phe Val Gly Ser Ser Ser Gly His Thr Ser  
 1 5 10 15  
 Thr Thr Leu  
  
 <210> 202  
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 Ala Trp Asp Asp Ser Ala Arg Ala Ala Gly Gly Gln Gly Leu His Val  
 1 5 10 15  
 Thr Ala Leu  
  
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 <223> AA33L KV1.3 PL peptide  
  
 <400> 203  
 Thr Thr Asn Asn Asn Pro Asn Ser Ala Val Asn Ile Lys Lys Ile Phe  
 1 5 10 15  
 Thr Asp Val  
  
 <210> 204  
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<220>  
 <223> AA34.2L NMDA PL peptide  
  
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 Leu Asn Ser Cys Ser Asn Arg Arg Val Tyr Lys Lys Met Pro Ser Ile  
 1 5 10 15  
 Glu Ser Asp Val  
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 <210> 205  
 <211> 19  
 <212> PRT  
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 <223> AA37L Glycophorin C PL peptide  
  
 <400> 205  
 Gln Gly Asp Pro Ala Leu Gln Asp Ala Gly Asp Ser Ser Arg Lys Glu  
 1 5 10 15  
 Tyr Phe Ile  
  
 <210> 206  
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 <223> AA38L Neurexin PL peptide  
  
 <400> 206  
 Ser Ser Ala Lys Ser Ser Asn Lys Asn Lys Lys Asn Lys Asp Lys Glu  
 1 5 10 15  
 Tyr Tyr Val  
  
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 <223> AA39L Syndecan-2 PL peptide  
  
 <400> 207  
 Gly Glu Arg Lys Pro Ser Ser Ala Ala Tyr Gln Lys Ala Pro Thr Lys  
 1 5 10 15  
 Glu Phe Tyr Ala  
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 <210> 208  
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 <223> AA40L DOCK2 PL peptide

<400> 208  
 Leu Ala Ser Lys Ser Ala Glu Glu Gly Lys Gln Ile Pro Asp Ser Leu  
 1 5 10 15  
 Ser Thr Asp Leu  
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<210> 209  
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 <212> PRT  
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<220>  
 <223> AA41L CC CKR-1R PL peptide

<400> 209  
 Leu Glu Arg Val Ser Ser Thr Ser Pro Ser Thr Gly Glu His Glu Leu  
 1 5 10 15  
 Ser Ala Gly Phe  
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<210> 210  
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<220>  
 <223> AA42L CC CKR-2 PL peptide

<400> 210  
 Gly Lys Gly Lys Ser Ile Gly Arg Ala Pro Glu Ala Ser Leu Gln Asp  
 1 5 10 15  
 Lys Glu Gly Ala  
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<210> 211  
 <211> 20  
 <212> PRT  
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<220>  
 <223> AA43L CC CKR-3 PL peptide

<400> 211  
 Leu Glu Arg Thr Ser Ser Val Ser Pro Ser Thr Ala Glu Pro Glu Leu  
 1 5 10 15  
 Ser Ile Val Phe  
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<210> 212  
 <211> 20  
 <212> PRT  
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<220>  
 <223> AA44L CC CKR-4 PL peptide

<400> 212  
 Asp Thr Pro Ser Ser Ser Tyr Thr Gln Ser Thr Met Asp His Asp Leu  
 1 5 10 15  
 His Asp Ala Leu  
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<210> 213  
 <211> 20  
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 <223> AA45L BLR-1 PL peptide  
  
 <400> 213  
 Pro Ser Trp Arg Arg Ser Ser Leu Ser Glu Ser Glu Asn Ala Thr Ser  
 1 5 10 15  
 Leu Thr Thr Phe  
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 <212> PRT  
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 <223> AA47L CD83 PL peptide  
  
 <400> 214  
 Val Thr Ser Pro Asn Lys His Leu Gly Leu Val Thr Pro His Lys Thr  
 1 5 10 15  
 Glu Leu Val  
  
 <210> 215  
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 <223> AA48L CD62e PL peptide  
  
 <400> 215  
 Ser Ser Ser Gln Ser Leu Glu Ser Asp Gly Ser Tyr Gln Lys Pro Ser  
 1 5 10 15  
 Tyr Ile Leu  
  
 <210> 216  
 <211> 20  
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 <223> AA49L CD5 PL peptide  
  
 <400> 216  
 Ser Met Gln Pro Asp Asn Ser Ser Asp Ser Asp Tyr Asp Leu His Gly  
 1 5 10 15  
 Ala Gln Arg Leu  
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<220>  
 <223> AA55L CD148 PL peptide  
  
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 1 5 10 15  
 Ala

<210> 218  
 <211> 4  
 <212> PRT  
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<220>  
 <223> PL motif, PDZ domain binding motif, C-terminal  
 core sequence of CLASP-1

<400> 218  
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<210> 219  
 <211> 5  
 <212> PRT  
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<220>  
 <223> PL motif, PDZ domain binding motif, C-terminal  
 sequence of CLASP-1

<400> 219  
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 1 5

<210> 220  
 <211> 6  
 <212> PRT  
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<220>  
 <223> PL motif, PDZ domain binding motif, C-terminal  
 sequence of CLASP-1

<400> 220  
 Ser Ser Ser Ala Gln Val  
 1 5

<210> 221  
 <211> 7  
 <212> PRT  
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<220>  
 <223> PL motif, PDZ domain binding motif, C-terminal  
 sequence of CLASP-1

<400> 221  
 Ile Ser Ser Ser Ala Gln Val  
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<210> 222
<211> 8
<212> PRT
<213> Artificial Sequence

<220>
<223> PL motif, PDZ domain binding motif, C-terminal
sequence of CLASP-1

<400> 222
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1          5

<210> 223
<211> 4
<212> PRT
<213> Artificial Sequence

<220>
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core sequence of CLASP-2

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Ser Ser Val Val
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<210> 224
<211> 5
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<220>
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sequence of CLASP-2

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Ser Ser Ser Val Val
1          5

<210> 225
<211> 6
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<220>
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sequence of CLASP-2

<400> 225
Ser Ser Ser Ser Val Val
1          5

<210> 226
<211> 7
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<220>
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sequence of CLASP-2

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<400> 226  
 Thr Ser Ser Ser Ser Val Val  
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 <211> 8  
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 <220>  
 <223> PL motif, PDZ domain binding motif, C-terminal  
 sequence of CLASP-2, competitor peptide  
  
 <400> 227  
 Met Thr Ser Ser Ser Ser Val Val  
 1 5  
  
 <210> 228  
 <211> 4  
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 <223> PL motif, PDZ domain binding motif, C-terminal  
 core sequence of CLASP-4  
  
 <400> 228  
 Tyr Ala Glu Val  
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 <210> 229  
 <211> 5  
 <212> PRT  
 <213> Artificial Sequence  
  
 <220>  
 <223> PL motif, PDZ domain binding motif, C-terminal  
 sequence of CLASP-4  
  
 <400> 229  
 Arg Tyr Ala Glu Val  
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 <210> 230  
 <211> 6  
 <212> PRT  
 <213> Artificial Sequence  
  
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 <223> PL motif, PDZ domain binding motif, C-terminal  
 sequence of CLASP-4  
  
 <400> 230  
 Pro Arg Tyr Ala Glu Val  
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 <211> 7  
 <212> PRT  
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    <220>
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           sequence of CLASP-4

    <400> 231
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1           5

    <210> 232
    <211> 8
    <212> PRT
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    <220>
    <223> PL motif, PDZ domain binding motif, C-terminal
           sequence of CLASP-4

    <400> 232
Gly Ser Pro Arg Tyr Ala Glu Val
1           5

    <210> 233
    <211> 4
    <212> PRT
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    <220>
    <223> PL motif, PDZ domain binding motif, C-terminal
           core sequence of IL-8RB

    <400> 233
Ser Thr Thr Leu
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    <210> 234
    <211> 5
    <212> PRT
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    <220>
    <223> PL motif, PDZ domain binding motif, C-terminal
           sequence of IL-8RB

    <400> 234
Thr Ser Thr Thr Leu
1           5

    <210> 235
    <211> 6
    <212> PRT
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    <220>
    <223> PL motif, PDZ domain binding motif, C-terminal
           sequence of IL-8RB

    <400> 235
His Thr Ser Thr Thr Leu
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<210> 236
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<212> PRT
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<220>
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sequence of IL-8RB

<400> 236
Gly His Thr Ser Thr Thr Leu
1          5

<210> 237
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<212> PRT
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<220>
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sequence of IL-8RB

<400> 237
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1          5

<210> 238
<211> 4
<212> PRT
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<220>
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core sequence of KV1.3

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Phe Thr Asp Val
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<210> 239
<211> 5
<212> PRT
<213> Artificial Sequence

<220>
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sequence of KV1.3

<400> 239
Ile Phe Thr Asp Val
1          5

<210> 240
<211> 6
<212> PRT
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<220>
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sequence of KV1.3

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<400> 240  
Lys Ile Phe Thr Asp Val  
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<210> 241  
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<212> PRT  
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<220>  
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sequence of KV1.3

<400> 241  
Lys Lys Ile Phe Thr Asp Val  
1 5

<210> 242  
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<220>  
<223> PL motif, PDZ domain binding motif, C-terminal  
sequence of KV1.3

<400> 242  
Ile Lys Lys Ile Phe Thr Asp Val  
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<210> 243  
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<220>  
<223> PL motif, PDZ domain binding motif, C-terminal  
core sequence of DOCK2

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Ser Thr Asp Leu  
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<210> 244  
<211> 5  
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<220>  
<223> PL motif, PDZ domain binding motif, C-terminal  
sequence of DOCK2

<400> 244  
Leu Ser Thr Asp Leu  
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<210> 245  
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<220>  
 <223> PL motif, PDZ domain binding motif, C-terminal  
 sequence of DOCK2  
  
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 <223> PL motif, PDZ domain binding motif, C-terminal  
 sequence of DOCK2  
  
 <400> 246  
 Asp Ser Leu Ser Thr Asp Leu  
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 <210> 247  
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 <220>  
 <223> PL motif, PDZ domain binding motif, C-terminal  
 sequence of DOCK2  
  
 <400> 247  
 Pro Asp Ser Leu Ser Thr Asp Leu  
 1 5  
  
 <210> 248  
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 <220>  
 <223> PL motif, PDZ domain binding motif, C-terminal  
 core sequence of CD83  
  
 <400> 248  
 Thr Glu Leu Val  
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 <210> 249  
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 <223> PL motif, PDZ domain binding motif, C-terminal  
 sequence of CD83  
  
 <400> 249  
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<210> 250
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<212> PRT
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<220>
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sequence of CD83

<400> 250
His Lys Thr Glu Leu Val
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<210> 251
<211> 7
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<220>
<223> PL motif, PDZ domain binding motif, C-terminal
sequence of CD83

<400> 251
Pro His Lys Thr Glu Leu Val
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<210> 252
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<220>
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sequence of CD83

<400> 252
Thr Pro His Lys Thr Glu Leu Val
1          5

<210> 253
<211> 4
<212> PRT
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<220>
<223> PL motif, PDZ domain binding motif, C-terminal
core sequence of BLR-1

<400> 253
Leu Thr Thr Phe
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<210> 254
<211> 5
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<220>
<223> PL motif, PDZ domain binding motif, C-terminal
sequence of BLR-1

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<400> 254  
Ser Leu Thr Thr Phe  
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<210> 255  
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<220>  
<223> PL motif, PDZ domain binding motif, C-terminal  
sequence of BLR-1

<400> 255  
Thr Ser Leu Thr Thr Phe  
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<210> 256  
<211> 7  
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<220>  
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sequence of BLR-1

<400> 256  
Ala Thr Ser Leu Thr Thr Phe  
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<210> 257  
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<220>  
<223> PL motif, PDZ domain binding motif, C-terminal  
sequence of BLR-1

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Asn Ala Thr Ser Leu Thr Thr Phe  
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<210> 258  
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<220>  
<223> linker region between glutathione-S transferase  
(GST) and PDZ domain in GST-PDZ fusion protein

<400> 258  
Gly Ile Pro Gly Asn  
1 5

<210> 259  
<211> 5  
<212> PRT  
<213> Artificial Sequence

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    <220>
    <223> PL motif, PDZ domain binding motif, C-terminal
           sequence of syndecan-2

    <400> 259
Lys Glu Phe Tyr Ala
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    <210> 260
    <211> 6
    <212> PRT
    <213> Artificial Sequence

    <220>
    <223> PL motif, PDZ domain binding motif, C-terminal
           sequence of syndecan-2

    <400> 260
Thr Lys Glu Phe Tyr Ala
  1             5

    <210> 261
    <211> 7
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    <220>
    <223> PL motif, PDZ domain binding motif, C-terminal
           sequence of syndecan-2

    <400> 261
Pro Thr Lys Glu Phe Tyr Ala
  1             5

    <210> 262
    <211> 8
    <212> PRT
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    <220>
    <223> PL motif, PDZ domain binding motif, C-terminal
           sequence of syndecan-2

    <400> 262
Ala Pro Thr Lys Glu Phe Tyr Ala
  1             5

    <210> 263
    <211> 4
    <212> PRT
    <213> Artificial Sequence

    <220>
    <223> PL motif, PDZ domain binding motif, C-terminal
           core sequence of NMDA

    <400> 263
Glu Ser Asp Val
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    <210> 264
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    <220>
    <223> PL motif, PDZ domain binding motif, C-terminal
           sequence of NMDA

    <400> 264
Ile Glu Ser Asp Val
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    <210> 265
    <211> 6
    <212> PRT
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    <220>
    <223> PL motif, PDZ domain binding motif, C-terminal
           sequence of NMDA

    <400> 265
Ser Ile Glu Ser Asp Val
  1           5

    <210> 266
    <211> 7
    <212> PRT
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    <220>
    <223> PL motif, PDZ domain binding motif, C-terminal
           sequence of NMDA

    <400> 266
Pro Ser Ile Glu Ser Asp Val
  1           5

    <210> 267
    <211> 8
    <212> PRT
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    <220>
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           sequence of NMDA

    <400> 267
Met Pro Ser Ile Glu Ser Asp Val
  1           5

    <210> 268
    <211> 4
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    <220>
    <223> PL motif, PDZ domain binding motif, C-terminal
           core sequence of neurexin

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<400> 268  
 Glu Tyr Tyr Val  
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<210> 269  
 <211> 5  
 <212> PRT  
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<220>  
 <223> PL motif, PDZ domain binding motif, C-terminal  
 sequence of neurexin

<400> 269  
 Lys Glu Tyr Tyr Val  
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<210> 270  
 <211> 6  
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<220>  
 <223> PL motif, PDZ domain binding motif, C-terminal  
 sequence of neurexin

<400> 270  
 Asp Lys Glu Tyr Tyr Val  
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<210> 271  
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<220>  
 <223> PL motif, PDZ domain binding motif, C-terminal  
 sequence of neurexin

<400> 271  
 Lys Asp Lys Glu Tyr Tyr Val  
 1 5

<210> 272  
 <211> 8  
 <212> PRT  
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<220>  
 <223> PL motif, PDZ domain binding motif, C-terminal  
 sequence of neurexin

<400> 272  
 Asn Lys Asp Lys Glu Tyr Tyr Val  
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<210> 273  
 <211> 4  
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    <220>
    <223> PL motif, PDZ domain binding motif, C-terminal
           core sequence of glycophorin C

    <400> 273
Glu Tyr Phe Ile
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    <210> 274
    <211> 5
    <212> PRT
    <213> Artificial Sequence

    <220>
    <223> PL motif, PDZ domain binding motif, C-terminal
           sequence of glycophorin C

    <400> 274
Lys Glu Tyr Phe Ile
1           5

    <210> 275
    <211> 6
    <212> PRT
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    <220>
    <223> PL motif, PDZ domain binding motif, C-terminal
           sequence of glycophorin C

    <400> 275
Arg Lys Glu Tyr Phe Ile
1           5

    <210> 276
    <211> 7
    <212> PRT
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    <220>
    <223> PL motif, PDZ domain binding motif, C-terminal
           sequence of glycophorin C

    <400> 276
Ser Arg Lys Glu Tyr Phe Ile
1           5

    <210> 277
    <211> 8
    <212> PRT
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    <220>
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           sequence of glycophorin C

    <400> 277
Ser Ser Arg Lys Glu Tyr Phe Ile
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    <210> 278
    <211> 4
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    <220>
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           core sequence of CD148

    <400> 278
Lys Thr Ile Ala
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    <210> 279
    <211> 5
    <212> PRT
    <213> Artificial Sequence

    <220>
    <223> PL motif, PDZ domain binding motif, C-terminal
           sequence of CD148

    <400> 279
Gly Lys Thr Ile Ala
1           5

    <210> 280
    <211> 6
    <212> PRT
    <213> Artificial Sequence

    <220>
    <223> PL motif, PDZ domain binding motif, C-terminal
           sequence of CD148

    <400> 280
Phe Gly Lys Thr Ile Ala
1           5

    <210> 281
    <211> 7
    <212> PRT
    <213> Artificial Sequence

    <220>
    <223> PL motif, PDZ domain binding motif, C-terminal
           sequence of CD148

    <400> 281
Thr Phe Gly Lys Thr Ile Ala
1           5

    <210> 282
    <211> 8
    <212> PRT
    <213> Artificial Sequence

    <220>
    <223> PL motif, PDZ domain binding motif, C-terminal
           sequence of CD148

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<400> 282  
 Thr Thr Phe Gly Lys Thr Ile Ala  
 1 5

<210> 283  
 <211> 4  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> CC CKR-2 PDZ ligand

<400> 283  
 Lys Glu Gly Ala  
 1

<210> 284  
 <211> 4  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> CLASP-1 PDZ ligand

<400> 284  
 Ser Ala Glu Val  
 1

<210> 285  
 <211> 4  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> CD5 PDZ ligand

<400> 285  
 Ala Gln Arg Leu  
 1

<210> 286  
 <211> 4  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> CC CKR-4 PDZ ligand

<400> 286  
 His Asp Ala Leu  
 1

<210> 287  
 <211> 4  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> CC CKR-1R PDZ ligand

<400> 287  
Ser Ala Gly Phe  
1

<210> 288  
<211> 4  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> CC CKR-3 PDZ ligand

<400> 288  
Ser Ile Val Phe  
1

<210> 289  
<211> 13  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Tat peptide

<400> 289  
Gly Tyr Gly Arg Lys Lys Arg Arg Gln Arg Arg Arg Gly  
1 5 10

<210> 290  
<211> 16  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> MBPAC1-16 peptide  
  
<221> MOD\_RES  
<222> (1)...(1)  
<223> Xaa = N-acetyl alanine

<400> 290  
Xaa Ser Gln Lys Arg Pro Ser Gln Arg His Gly Ser Lys Tyr Leu Ala  
1 5 10 15

<210> 291  
<211> 7  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> PL motif, PDZ domain binding motif, C-terminal  
sequence of CD105

<400> 291  
Cys Ser Thr Ser Ser Met Ala  
1 5

<210> 292  
<211> 96  
<212> PRT  
<213> Artificial Sequence



<220>

<223> CASK PDZ domain 1

<400> 292

His	Val	Thr	Arg	Val	Arg	Leu	Val	Gln	Phe	Gln	Lys	Asn	Thr	Asp	Glu	
1				5				10						15		
Pro	Met	Gly	Ile	Thr	Leu	Lys	Met	Asn	Glu	Leu	Asn	His	Cys	Ile	Val	
			20					25					30			
Ala	Arg	Ile	Met	His	Gly	Gly	Met	Ile	His	Arg	Gln	Gly	Thr	Leu	His	
		35					40					45				
Val	Gly	Asp	Glu	Ile	Arg	Glu	Ile	Asn	Gly	Ile	Ser	Val	Ala	Asn	Gln	
	50					55					60					
Thr	Val	Glu	Gln	Leu	Gln	Lys	Met	Leu	Arg	Glu	Met	Arg	Gly	Ser	Ile	
65					70					75					80	
Thr	Phe	Lys	Ile	Val	Pro	Ser	Tyr	Arg	Thr	Gln	Ser	Leu	Asn	Ser	Ser	
				85					90					95		

<210> 293

<211> 93

<212> PRT

<213> Artificial Sequence

<220>

<223> MPP1 55 Kd erythrocyte membrane protein PDZ domain  
1

<400> 293

Arg	Lys	Val	Arg	Leu	Ile	Gln	Phe	Glu	Lys	Val	Thr	Glu	Glu	Pro	Met	
1				5				10						15		
Gly	Ile	Thr	Leu	Lys	Leu	Asn	Glu	Lys	Gln	Ser	Cys	Thr	Val	Ala	Arg	
			20					25					30			
Ile	Leu	His	Gly	Gly	Met	Ile	His	Arg	Gln	Gly	Ser	Leu	His	Val	Gly	
		35				40					45					
Asp	Glu	Ile	Leu	Glu	Ile	Asn	Gly	Thr	Asn	Val	Thr	Asn	His	Ser	Val	
	50					55					60					
Asp	Gln	Leu	Gln	Lys	Ala	Met	Lys	Glu	Thr	Lys	Gly	Met	Ile	Ser	Leu	
65					70					75					80	
Lys	Val	Ile	Pro	Asn	Gln	Arg	Glu	Phe	Ile	Val	Thr	Asp				
				85					90							

<210> 294

<211> 208

<212> PRT

<213> Artificial Sequence

<220>

<223> DLG1 human homolog of Drosophila discs large  
protein PDZ domains 1 and 2

<400> 294

Gln	Val	Asn	Gly	Thr	Asp	Ala	Asp	Tyr	Glu	Tyr	Glu	Glu	Ile	Thr	Leu	
1				5				10						15		
Glu	Arg	Gly	Asn	Ser	Gly	Leu	Gly	Phe	Ser	Ile	Ala	Gly	Gly	Thr	Asp	
			20					25					30			
Asn	Pro	His	Ile	Gly	Asp	Asp	Ser	Ile	Phe	Ile	Thr	Lys	Ile	Ile		
		35				40					45					
Thr	Gly	Gly	Ala	Ala	Ala	Gln	Asp	Gly	Arg	Leu	Arg	Val	Asn	Asp	Cys	
	50					55					60					
Ile	Leu	Gln	Val	Asn	Glu	Val	Asp	Val	Arg	Asp	Val	Thr	His	Ser	Lys	
65					70					75					80	

Ala	Val	Glu	Ala	Leu	Lys	Glu	Ala	Gly	Ser	Ile	Val	Arg	Leu	Tyr	Val
			85						90					95	
Lys	Arg	Arg	Lys	Pro	Val	Ser	Glu	Lys	Ile	Met	Glu	Ile	Lys	Leu	Ile
			100					105					110		
Lys	Gly	Pro	Lys	Gly	Leu	Gly	Phe	Ser	Ile	Ala	Gly	Gly	Val	Gly	Asn
		115					120					125			
Gln	His	Ile	Pro	Gly	Asp	Asn	Ser	Ile	Tyr	Val	Thr	Lys	Ile	Ile	Glu
	130					135					140				
Gly	Gly	Ala	Ala	His	Lys	Asp	Gly	Lys	Leu	Gln	Ile	Gly	Asp	Lys	Leu
145					150					155					160
Leu	Ala	Val	Asn	Asn	Val	Cys	Leu	Glu	Glu	Val	Thr	His	Glu	Glu	Ala
			165					170							175
Val	Thr	Ala	Leu	Lys	Asn	Thr	Ser	Asp	Phe	Val	Tyr	Leu	Lys	Val	Ala
			180					185					190		
Lys	Pro	Thr	Ser	Met	Tyr	Met	Asn	Asp	Gly	Tyr	Ala	Pro	Asn	Ser	Ser
		195					200					205			

<210> 295

<211> 344

<212> PRT

<213> Artificial Sequence

<220>

<223> PSD95 human post-synaptic density protein PDZ domains 1-3

<400> 295

Leu	Glu	Gly	Glu	Gly	Glu	Met	Glu	Tyr	Glu	Glu	Ile	Thr	Leu	Glu	Arg
1				5					10					15	
Gly	Asn	Ser	Gly	Leu	Gly	Phe	Ser	Ile	Ala	Gly	Gly	Thr	Asp	Asn	Pro
			20					25					30		
His	Ile	Gly	Asp	Asp	Pro	Ser	Ile	Phe	Ile	Thr	Lys	Ile	Ile	Pro	Gly
		35					40					45			
Gly	Ala	Ala	Ala	Gln	Asp	Gly	Arg	Leu	Arg	Val	Asn	Asp	Ser	Ile	Leu
	50					55				60					
Phe	Val	Asn	Glu	Val	Asp	Val	Arg	Glu	Val	Thr	His	Ser	Ala	Ala	Val
65					70					75					80
Glu	Ala	Leu	Lys	Glu	Ala	Gly	Ser	Ile	Val	Arg	Leu	Tyr	Val	Met	Arg
				85					90					95	
Arg	Lys	Pro	Pro	Ala	Glu	Lys	Val	Met	Glu	Ile	Lys	Leu	Ile	Lys	Gly
			100					105					110		
Pro	Lys	Gly	Leu	Gly	Phe	Ser	Ile	Ala	Gly	Gly	Val	Gly	Asn	Gln	His
		115					120					125			
Ile	Pro	Gly	Asp	Asn	Ser	Ile	Tyr	Val	Thr	Lys	Ile	Ile	Glu	Gly	Gly
	130					135					140				
Ala	Ala	His	Lys	Asp	Gly	Arg	Leu	Gln	Ile	Gly	Asp	Lys	Ile	Leu	Ala
145					150					155					160
Val	Asn	Ser	Val	Gly	Leu	Glu	Asp	Val	Met	His	Glu	Asp	Ala	Val	Ala
				165					170					175	
Ala	Leu	Lys	Asn	Thr	Tyr	Asp	Val	Val	Tyr	Leu	Lys	Val	Ala	Lys	Pro
			180					185					190		
Ser	Asn	Ala	Tyr	Leu	Ser	Asp	Ser	Tyr	Ala	Pro	Pro	Asp	Ile	Thr	Thr
		195					200					205			
Ser	Tyr	Ser	Gln	His	Leu	Asp	Asn	Glu	Ile	Ser	His	Ser	Ser	Tyr	Leu
	210					215					220				
Gly	Thr	Asp	Tyr	Pro	Thr	Ala	Met	Thr	Pro	Thr	Ser	Pro	Arg	Arg	Tyr
225					230					235					240
Ser	Pro	Val	Ala	Lys	Asp	Leu	Leu	Gly	Glu	Glu	Asp	Ile	Pro	Arg	Glu
				245					250					255	
Pro	Arg	Arg	Ile	Val	Ile	His	Arg	Gly	Ser	Thr	Gly	Leu	Gly	Phe	Asn
			260					265					270		

Ile Val Gly Gly Glu Asp Gly Glu Gly Ile Phe Ile Ser Phe Ile Leu  
275 280 285  
Ala Gly Gly Pro Ala Asp Leu Ser Gly Glu Leu Arg Lys Gly Asp Gln  
290 295 300  
Ile Leu Ser Val Asn Gly Val Asp Leu Arg Asn Ala Ser His Glu Gln  
305 310 315 320  
Ala Ala Ile Ala Leu Lys Asn Ala Gly Gln Thr Val Thr Ile Ile Ala  
325 330 335  
Gln Tyr Lys Pro Glu Phe Ile Val  
340

<210> 296  
<211> 189  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> NeDLG presynaptic protein saol02 (neuroendocrine  
dlg) PDZ domains 1-2

<400> 296  
Gln Tyr Glu Glu Ile Val Leu Glu Arg Gly Asn Ser Gly Leu Gly Phe  
1 5 10 15  
Ser Ile Ala Gly Gly Ile Asp Asn Pro His Val Pro Asp Asp Pro Gly  
20 25 30  
Ile Phe Ile Thr Lys Ile Ile Pro Gly Gly Ala Ala Ala Met Asp Gly  
35 40 45  
Arg Leu Gly Val Asn Asp Cys Val Leu Arg Val Asn Glu Val Glu Val  
50 55 60  
Ser Glu Val Val His Ser Arg Ala Val Glu Ala Leu Lys Glu Ala Gly  
65 70 75 80  
Pro Val Val Arg Leu Val Val Arg Arg Arg Gln Pro Pro Pro Glu Thr  
85 90 95  
Ile Met Glu Val Asn Leu Leu Lys Gly Pro Lys Gly Leu Gly Phe Ser  
100 105 110  
Ile Ala Gly Gly Ile Gly Asn Gln His Ile Pro Gly Asp Asn Ser Ile  
115 120 125  
Tyr Ile Thr Lys Ile Ile Glu Gly Gly Ala Ala Gln Lys Asp Gly Arg  
130 135 140  
Leu Gln Ile Gly Asp Arg Leu Leu Ala Val Asn Asn Thr Asn Leu Gln  
145 150 155 160  
Asp Val Arg His Glu Glu Ala Val Ala Ser Leu Lys Asn Thr Ser Asp  
165 170 175  
Met Val Tyr Leu Lys Val Ala Lys Pro Gly Ser Pro Arg  
180 185

<210> 297  
<211> 97  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> TAX33 tax interaction protein 33 PDZ domain 1

<400> 297  
His Ser His Pro Arg Val Val Glu Leu Pro Lys Thr Asp Glu Gly Leu  
1 5 10 15  
Gly Phe Asn Val Met Gly Gly Lys Glu Gln Asn Ser Pro Ile Tyr Ile  
20 25 30  
Ser Arg Ile Ile Pro Gly Gly Val Ala Glu Arg His Gly Gly Leu Lys  
35 40 45

Arg Gly Asp Gln Leu Leu Ser Val Asn Gly Val Ser Val Glu Gly Glu  
50 55 60  
His His Glu Lys Ala Val Glu Leu Leu Lys Ala Ala Lys Asp Ser Val  
65 70 75 80  
Lys Leu Val Val Arg Tyr Thr Pro Lys Val Leu Glu Phe Ile Val Thr  
85 90 95  
Asn

<210> 298  
<211> 97  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> SYN 1 alpha alpha1-syntrophin PDZ domain 1

<400> 298  
Gln Arg Arg Arg Val Thr Val Arg Lys Ala Asp Ala Gly Gly Leu Gly  
1 5 10 15  
Ile Ser Ile Lys Gly Gly Arg Glu Asn Lys Met Pro Ile Leu Ile Ser  
20 25 30  
Lys Ile Phe Lys Gly Leu Ala Ala Asp Gln Thr Glu Ala Leu Phe Val  
35 40 45  
Gly Asp Ala Ile Leu Ser Val Asn Gly Glu Asp Leu Ser Ser Ala Thr  
50 55 60  
His Asp Glu Ala Val Gln Val Leu Lys Lys Thr Gly Lys Glu Val Val  
65 70 75 80  
Leu Glu Val Lys Tyr Met Lys Asp Val Ser Pro Tyr Phe Lys Asn Ser  
85 90 95  
Ser

<210> 299  
<211> 78  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> TAX43 human tax interaction protein 43 PDZ domain  
1

<400> 299  
Gln Lys Arg Gly Val Lys Val Leu Lys Gln Glu Leu Gly Gly Leu Gly  
1 5 10 15  
Ile Ser Ile Lys Gly Gly Lys Glu Asn Lys Met Pro Ile Leu Ile Ser  
20 25 30  
Lys Ile Phe Lys Gly Leu Ala Ala Asp Gln Thr Gln Ala Leu Tyr Val  
35 40 45  
Gly Asp Ala Ile Leu Ser Val Asn Gly Ala Asp Leu Arg Asp Ala Thr  
50 55 60  
His Asp Glu Ala Val Gln Ala Leu Gln Phe Ile Val Thr Asn  
65 70 75

<210> 300  
<211> 46  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> LDP lim domain protein clp-36 PDZ domain 1

<400> 300  
 Arg Gly Met Thr Thr Gln Gln Ile Asp Leu Gln Gly Pro Gly Pro Trp  
 1 5 10 15  
 Gly Phe Arg Leu Val Gly Arg Lys Asp Phe Glu Gln Pro Leu Ala Ile  
 20 25 30  
 Ser Arg Val Thr Pro Gly Ser Lys Ala Ala Leu Ala Ser Ser  
 35 40 45

<210> 301  
 <211> 86  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> LIM human LIM protein PDZ domain 1

<400> 301  
 Leu Ser Asn Tyr Ser Val Ser Leu Val Gly Pro Ala Pro Trp Gly Phe  
 1 5 10 15  
 Arg Leu Gln Gly Gly Lys Asp Phe Asn Met Pro Leu Thr Ile Ser Ser  
 20 25 30  
 Leu Lys Asp Gly Gly Lys Ala Ala Gln Ala Asn Val Arg Ile Gly Asp  
 35 40 45  
 Val Val Leu Ser Ile Asp Gly Ile Asn Ala Gln Gly Met Thr His Leu  
 50 55 60  
 Glu Ala Gln Asn Lys Ile Lys Gly Cys Thr Gly Ser Leu Asn Met Thr  
 65 70 75 80  
 Leu Gln Arg Ala Ser Cys  
 85

<210> 302  
 <211> 102  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> LIMK1 human LIM domain kinase 1 PDZ domain 1

<400> 302  
 Thr Val Thr Leu Val Ser Ile Pro Ala Ser Ser His Gly Lys Arg Gly  
 1 5 10 15  
 Leu Ser Val Ser Ile Asp Pro Pro His Gly Pro Pro Gly Cys Gly Thr  
 20 25 30  
 Glu His Ser His Thr Val Arg Val Gln Gly Val Asp Pro Gly Cys Met  
 35 40 45  
 Ser Pro Asp Val Lys Asn Ser Ile His Val Gly Asp Arg Ile Leu Glu  
 50 55 60  
 Ile Asn Gly Thr Pro Ile Arg Asn Val Pro Leu Asp Glu Ile Asp Leu  
 65 70 75 80  
 Leu Ile Gln Glu Thr Ser Arg Leu Leu Gln Leu Thr Leu Glu His Asp  
 85 90 95  
 Pro Gly Ile His Arg Asp  
 100

<210> 303  
 <211> 97  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> LIMK2 human LIM domain kinase 2 PDZ domain 1

<400> 303  
 Pro Tyr Ser Val Thr Leu Ile Ser Met Pro Ala Thr Thr Glu Gly Arg  
 1 5 10 15  
 Arg Gly Phe Ser Val Ser Val Glu Ser Ala Cys Ser Asn Tyr Ala Thr  
 20 25 30  
 Thr Val Gln Val Lys Glu Val Asn Arg Met His Ile Ser Pro Asn Asn  
 35 40 45  
 Arg Asn Ala Ile His Pro Gly Asp Arg Ile Leu Glu Ile Asn Gly Thr  
 50 55 60  
 Pro Val Arg Thr Leu Arg Val Glu Glu Val Glu Asp Ala Ile Ser Gln  
 65 70 75 80  
 Thr Ser Gln Thr Leu Gln Leu Leu Ile Glu His Glu Phe Ile Val Thr  
 85 90 95  
 Asn

<210> 304  
 <211> 96  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> MPP2 maguk p55 subfamily member 2 (DLG2) PDZ  
 domain 1

<400> 304  
 Gln Pro Val Pro Pro Asp Ala Val Arg Met Val Gly Ile Arg Lys Thr  
 1 5 10 15  
 Ala Gly Glu His Leu Gly Val Thr Phe Arg Val Glu Gly Gly Glu Leu  
 20 25 30  
 Val Ile Ala Arg Ile Leu His Gly Gly Met Val Ala Gln Gln Gly Leu  
 35 40 45  
 Leu His Val Gly Asp Ile Ile Lys Glu Val Asn Gly Gln Pro Val Gly  
 50 55 60  
 Ser Asp Pro Arg Ala Leu Gln Glu Leu Leu Arg Asn Ala Ser Gly Ser  
 65 70 75 80  
 Val Ile Leu Lys Ile Leu Pro Asn Tyr Gln Val Phe Ile Val Thr Asp  
 85 90 95

<210> 305  
 <211> 96  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> NOS1 human neuronal nitric oxide synthase PDZ  
 domain 1

<400> 305  
 Ile Gln Pro Asn Val Ile Ser Val Arg Leu Phe Lys Arg Lys Val Gly  
 1 5 10 15  
 Gly Leu Gly Phe Leu Val Lys Glu Arg Val Ser Lys Pro Pro Val Ile  
 20 25 30  
 Ile Ser Asp Leu Ile Arg Gly Gly Ala Ala Glu Gln Ser Gly Leu Ile  
 35 40 45  
 Gln Ala Gly Asp Ile Ile Leu Ala Val Asn Gly Arg Pro Leu Val Asp  
 50 55 60  
 Leu Ser Tyr Asp Ser Ala Leu Glu Val Leu Arg Gly Ile Ala Ser Glu  
 65 70 75 80  
 Thr His Val Val Leu Ile Leu Arg Gly Pro Glu Phe Ile Val Thr Asp  
 85 90 95

<210> 306  
 <211> 99  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> AF6 af-6 protein PDZ domain 1

<400> 306  
 Leu Arg Lys Glu Pro Glu Ile Ile Thr Val Thr Leu Lys Lys Gln Asn  
 1 5 10 15  
 Gly Met Gly Leu Ser Ile Val Ala Ala Lys Gly Ala Gly Gln Asp Lys  
 20 25 30  
 Leu Gly Ile Tyr Val Lys Ser Val Val Lys Gly Gly Ala Ala Asp Val  
 35 40 45  
 Asp Gly Arg Leu Ala Ala Gly Asp Gln Leu Leu Ser Val Asp Gly Arg  
 50 55 60  
 Ser Leu Val Gly Leu Ser Gln Glu Arg Ala Ala Glu Leu Met Thr Arg  
 65 70 75 80  
 Thr Ser Ser Val Val Thr Leu Glu Val Ala Lys Gln Gly Glu Phe Ile  
 85 90 95  
 Val Thr Asp

<210> 307  
 <211> 95  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> PTN-4 protein-tyrosine phosphatase megl. PDZ domain  
 1

<400> 307  
 Leu Ile Arg Met Lys Pro Asp Glu Asn Gly Arg Phe Gly Phe Asn Val  
 1 5 10 15  
 Lys Gly Gly Tyr Asp Gln Lys Met Pro Val Ile Val Ser Arg Val Ala  
 20 25 30  
 Pro Gly Thr Pro Ala Asp Leu Cys Val Pro Arg Leu Asn Glu Gly Asp  
 35 40 45  
 Gln Val Val Leu Ile Asn Gly Arg Asp Ile Ala Glu His Thr His Asp  
 50 55 60  
 Gln Val Val Leu Phe Ile Lys Ala Ser Cys Glu Arg His Ser Gly Glu  
 65 70 75 80  
 Leu Met Leu Leu Val Arg Pro Asn Ala Glu Phe Ile Val Thr Asp  
 85 90 95

<210> 308  
 <211> 219  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> prIL16 putative interleukin 16 precursor PDZ  
 domain 1-2

<400> 308  
 His Val Thr Ile Leu His Lys Glu Glu Gly Ala Gly Leu Gly Phe Ser  
 1 5 10 15  
 Leu Ala Gly Gly Ala Asp Leu Glu Asn Lys Val Ile Thr Val His Arg  
 20 25 30

Val Phe Pro Asn Gly Leu Ala Ser Gln Glu Gly Thr Ile Gln Lys Gly  
 35 40 45  
 Asn Glu Val Leu Ser Ile Asn Gly Lys Ser Leu Lys Gly Thr Thr His  
 50 55 60  
 His Asp Ala Leu Ala Ile Leu Arg Gln Ala Arg Glu Pro Arg Gln Ala  
 65 70 75 80  
 Val Ile Val Thr Arg Lys Leu Thr Pro Glu Ala Met Pro Asp Leu Asn  
 85 90 95  
 Ser Ser Thr Asp Ser Ala Ala Ser Ala Ser Ala Ala Ser Asp Val Ser  
 100 105 110  
 Val Glu Ser Thr Ala Glu Ala Thr Val Cys Thr Val Thr Leu Glu Lys  
 115 120 125  
 Met Ser Ala Gly Leu Gly Phe Ser Leu Glu Gly Gly Lys Gly Ser Leu  
 130 135 140  
 His Gly Asp Lys Pro Leu Thr Ile Asn Arg Ile Phe Lys Gly Ala Ala  
 145 150 155 160  
 Ser Glu Gln Ser Glu Thr Val Gln Pro Gly Asp Glu Ile Leu Gln Leu  
 165 170 175  
 Gly Gly Thr Ala Met Gln Gly Leu Thr Arg Phe Glu Ala Trp Asn Ile  
 180 185 190  
 Ile Lys Ala Leu Pro Asp Gly Pro Val Thr Ile Val Ile Arg Arg Lys  
 195 200 205  
 Ser Leu Gln Ser Lys Glu Phe Ile Val Thr Asp  
 210 215

<210> 309

<211> 86

<212> PRT

<213> Artificial Sequence

<220>

<223> 41.8 kD hypothetical 41.8 kD protein PDZ domain 1

<400> 309

Arg Asp Ser Gly Ala Met Leu Gly Leu Lys Val Val Gly Gly Lys Met  
 1 5 10 15  
 Thr Glu Ser Gly Arg Leu Cys Ala Phe Ile Thr Lys Val Lys Lys Gly  
 20 25 30  
 Ser Leu Ala Asp Thr Val Gly His Leu Arg Pro Gly Asp Glu Val Leu  
 35 40 45  
 Glu Trp Asn Gly Arg Leu Leu Gln Gly Ala Thr Phe Glu Glu Val Tyr  
 50 55 60  
 Asn Ile Ile Leu Glu Ser Lys Pro Glu Pro Gln Val Glu Leu Val Val  
 65 70 75 80  
 Ser Arg Ala Asn Ser Ser  
 85

<210> 310

<211> 109

<212> PRT

<213> Artificial Sequence

<220>

<223> K559 KIAA0559 PDZ domain 1

<400> 310

His Tyr Ile Phe Pro His Ala Arg Ile Lys Ile Thr Arg Asp Ser Lys  
 1 5 10 15  
 Asp His Thr Val Ser Gly Asn Gly Leu Gly Ile Arg Ile Val Gly Gly  
 20 25 30



Lys	Glu	Ile	Pro	Gly	His	Ser	Gly	Glu	Ile	Gly	Ala	Tyr	Ile	Ala	Lys
	35						40					45			
Ile	Leu	Pro	Gly	Gly	Ser	Ala	Glu	Gln	Thr	Gly	Lys	Leu	Met	Glu	Gly
	50					55					60				
Met	Gln	Val	Leu	Glu	Trp	Asn	Gly	Ile	Pro	Leu	Thr	Ser	Lys	Thr	Tyr
65					70					75					80
Glu	Glu	Val	Gln	Ser	Ile	Ile	Ser	Gln	Gln	Ser	Gly	Glu	Ala	Glu	Ile
				85					90					95	
Cys	Val	Arg	Leu	Asp	Leu	Asn	Met	Leu	Ser	Asn	Ser	Ser			
			100					105							

<210> 311  
 <211> 73  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> RGS12 human regulator of G-protein signalling 12  
 PDZ domain 1

Pro	Pro	Pro	Arg	Val	Arg	Ser	Val	Glu	Val	Ala	Arg	Gly	Arg	Ala	Gly
1				5					10					15	
Tyr	Gly	Phe	Thr	Leu	Ser	Gly	Gln	Ala	Pro	Cys	Val	Leu	Ser	Cys	Val
			20					25					30		
Met	Arg	Gly	Ser	Pro	Ala	Asp	Phe	Val	Gly	Leu	Arg	Ala	Gly	Asp	Gln
		35					40					45			
Ile	Leu	Ala	Val	Asn	Glu	Ile	Asn	Val	Lys	Lys	Ala	Ser	His	Glu	Asp
	50					55					60				
Val	Val	Lys	Leu	Ile	Gly	Asn	Ser	Ser							
65					70										

<210> 312  
 <211> 92  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> K316 KIAA0316 PDZ domain 1

Pro	Pro	Ala	Pro	Arg	Lys	Val	Glu	Met	Arg	Arg	Asp	Pro	Val	Leu	Gly
1				5					10					15	
Phe	Gly	Phe	Val	Ala	Gly	Ser	Glu	Lys	Pro	Val	Val	Val	Arg	Ser	Val
			20					25					30		
Thr	Pro	Gly	Gly	Pro	Ser	Glu	Gly	Lys	Leu	Ile	Pro	Gly	Asp	Gln	Ile
		35					40					45			
Val	Met	Ile	Asn	Asp	Glu	Pro	Val	Ser	Ala	Ala	Pro	Arg	Glu	Arg	Val
	50					55					60				
Ile	Asp	Leu	Val	Arg	Ser	Cys	Lys	Glu	Ser	Ile	Leu	Leu	Thr	Val	Ile
65					70					75					80
Gln	Pro	Tyr	Pro	Ser	Pro	Lys	Ile	Arg	Asn	Ser	Ser				
				85					90						

<210> 313  
 <211> 103  
 <212> PRT  
 <213> Artificial Sequence

<220>

<223> DVL1 human dishevelled segment polarity protein  
homolog PDZ domain 1

<400> 313

Gln	Ser	Thr	Val	Leu	Asn	Ile	Val	Thr	Val	Thr	Leu	Asn	Met	Glu	Arg
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His	His	Phe	Leu	Gly	Ile	Ser	Ile	Val	Gly	Gln	Ser	Asn	Asp	Arg	Gly
			20					25					30		
Asp	Gly	Gly	Ile	Tyr	Ile	Gly	Ser	Ile	Met	Lys	Gly	Gly	Ala	Val	Ala
	35						40					45			
Ala	Asp	Gly	Arg	Ile	Glu	Pro	Gly	Asp	Met	Leu	Leu	Gln	Val	Asn	Asp
	50					55				60					
Val	Asn	Phe	Glu	Asn	Met	Ser	Asn	Asp	Asp	Ala	Val	Arg	Val	Leu	Arg
65					70					75				80	
Glu	Ile	Val	Ser	Gln	Thr	Gly	Pro	Ile	Ser	Leu	Thr	Val	Ala	Lys	Cys
				85					90					95	
Trp	Glu	Phe	Ile	Val	Thr	Asp									
			100												

<210> 314

<211> 106

<212> PRT

<213> Artificial Sequence

<220>

<223> TAX40 human tax interaction protein 40 PDZ domain 1

<400> 314

Leu	Leu	Pro	Glu	Thr	His	Arg	Arg	Val	Arg	Leu	His	Lys	His	Gly	Ser
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Asp	Arg	Pro	Leu	Gly	Phe	Tyr	Ile	Arg	Asp	Gly	Met	Ser	Val	Arg	Val
			20					25					30		
Ala	Pro	Gln	Gly	Leu	Glu	Arg	Val	Pro	Gly	Ile	Phe	Ile	Ser	Arg	Leu
	35						40					45			
Val	Arg	Gly	Gly	Leu	Ala	Glu	Ser	Thr	Gly	Leu	Leu	Ala	Val	Ser	Asp
	50					55				60					
Glu	Ile	Leu	Glu	Val	Asn	Gly	Ile	Glu	Val	Ala	Gly	Lys	Thr	Leu	Asp
65					70					75				80	
Gln	Val	Thr	Asp	Met	Met	Val	Ala	Asn	Ser	His	Asn	Leu	Ile	Val	Thr
				85					90					95	
Val	Lys	Pro	Ala	Asn	Gln	Ala	Asn	Ser	Ser						
			100					105							

<210> 315

<211> 94

<212> PRT

<213> Artificial Sequence

<220>

<223> TIAM1 T-lymphoma invasion and metastasis inducing  
protein 1 PDZ domain 1

<400> 315

His	Ser	Ile	His	Ile	Glu	Lys	Ser	Asp	Thr	Ala	Ala	Asp	Thr	Tyr	Gly
1				5				10						15	
Phe	Ser	Leu	Ser	Ser	Val	Glu	Glu	Asp	Gly	Ile	Arg	Arg	Leu	Tyr	Val
			20					25					30		
Asn	Ser	Val	Lys	Glu	Thr	Gly	Leu	Ala	Ser	Lys	Lys	Gly	Leu	Lys	Ala
	35						40					45			

Gly Asp Glu Ile Leu Glu Ile Asn Asn Arg Ala Ala Asp Ala Leu Asn  
50 55 60  
Ser Ser Met Leu Lys Asp Phe Leu Ser Gln Pro Ser Leu Gly Leu Leu  
65 70 75 80  
Val Arg Thr Tyr Pro Glu Leu Glu Glu Phe Ile Val Thr Asp  
85 90

<210> 316  
<211> 181  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> MINT1 human X11 protein PDZ domains 1-2

<400> 316  
Ser Glu Asn Cys Lys Asp Val Phe Ile Glu Lys Gln Lys Gly Glu Ile  
1 5 10 15  
Leu Gly Val Val Ile Val Glu Ser Gly Trp Gly Ser Ile Leu Pro Thr  
20 25 30  
Val Ile Ile Ala Asn Met Met His Gly Gly Pro Ala Glu Lys Ser Gly  
35 40 45  
Lys Leu Asn Ile Gly Asp Gln Ile Met Ser Ile Asn Gly Thr Ser Leu  
50 55 60  
Val Gly Leu Pro Leu Ser Thr Cys Gln Ser Ile Ile Lys Gly Leu Glu  
65 70 75 80  
Asn Gln Ser Arg Val Lys Leu Asn Ile Val Arg Cys Pro Pro Val Thr  
85 90 95  
Thr Val Leu Ile Arg Arg Pro Asp Leu Arg Tyr Gln Leu Gly Phe Ser  
100 105 110  
Val Gln Asn Gly Ile Ile Cys Ser Leu Met Arg Gly Gly Ile Ala Glu  
115 120 125  
Arg Gly Gly Val Arg Val Gly His Arg Ile Ile Glu Ile Asn Gly Gln  
130 135 140  
Ser Val Val Ala Thr Pro His Glu Lys Ile Val His Ile Leu Ser Asn  
145 150 155 160  
Ala Val Gly Glu Ile His Met Lys Thr Met Pro Ala Ala Met Tyr Arg  
165 170 175  
Leu Leu Asn Ser Ser  
180

<210> 317  
<211> 97  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> K303 KIAA0303 PDZ domain 1

<400> 317  
Pro His Gln Pro Ile Val Ile His Ser Ser Gly Lys Asn Tyr Gly Phe  
1 5 10 15  
Thr Ile Arg Ala Ile Arg Val Tyr Val Gly Asp Ser Asp Ile Tyr Thr  
20 25 30  
Val His His Ile Val Trp Asn Val Glu Glu Gly Ser Pro Ala Cys Gln  
35 40 45  
Ala Gly Leu Lys Ala Gly Asp Leu Ile Thr His Ile Asn Gly Glu Pro  
50 55 60  
Val His Gly Leu Val His Thr Glu Val Ile Glu Leu Leu Leu Lys Ser  
65 70 75 80

Gly Asn Lys Val Ser Ile Thr Thr Thr Pro Phe Glu Phe Ile Val Thr  
85 90 95  
Asp

<210> 318  
<211> 95  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> CBP cytohesin binding protein HE PDZ domain 1

<400> 318  
Gln Arg Lys Leu Val Thr Val Glu Lys Gln Asp Asn Glu Thr Phe Gly  
1 5 10 15  
Phe Glu Ile Gln Ser Tyr Arg Pro Gln Asn Gln Asn Ala Cys Ser Ser  
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Glu Met Phe Thr Leu Ile Cys Lys Ile Gln Glu Asp Ser Pro Ala His  
35 40 45  
Cys Ala Gly Leu Gln Ala Gly Asp Val Leu Ala Asn Ile Asn Gly Val  
50 55 60  
Ser Thr Glu Gly Phe Thr Tyr Lys Gln Val Val Asp Leu Ile Arg Ser  
65 70 75 80  
Ser Gly Asn Leu Leu Thr Ile Glu Thr Leu Asn Gly Asn Ser Ser  
85 90 95

<210> 319  
<211> 48  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> human MINT3 PDZ domain 1

<400> 319  
Pro Val Thr Thr Ala Ile Ile His Arg Pro His Ala Arg Glu Gln Leu  
1 5 10 15  
Gly Phe Cys Val Glu Asp Gly Ile Val Arg Pro Arg Pro Leu Ala Pro  
20 25 30  
Gly Trp Gly Gly Arg Ala Ala Leu Ser Thr Glu Phe Ile Val Thr Asp  
35 40 45

<210> 320  
<211> 92  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> TAX2 human tax interaction protein 2 PDZ domain 1

<400> 320  
Arg Lys Glu Val Glu Val Phe Lys Ser Glu Asp Ala Leu Gly Leu Thr  
1 5 10 15  
Ile Thr Asp Asn Gly Ala Gly Tyr Ala Phe Ile Lys Arg Ile Lys Glu  
20 25 30  
Gly Ser Val Ile Asp His Ile His Leu Ile Ser Val Gly Asp Met Ile  
35 40 45  
Glu Ala Ile Asn Gly Gln Ser Leu Leu Gly Cys Arg His Tyr Glu Val  
50 55 60

Ala Arg Leu Leu Lys Glu Leu Pro Arg Gly Arg Thr Phe Thr Leu Lys  
65 70 75 80  
Leu Thr Glu Pro Arg Lys Glu Phe Ile Val Thr Asp  
85 90

<210> 321  
<211> 94  
<212> PRT  
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<220>  
<223> K561 KIAA0561 PDZ domain 1

<400> 321  
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Gly Arg Ser Ala Ser Thr Trp Val Ile Ala Thr Ser Thr Leu Cys Thr  
20 25 30  
Thr Ser Ser Gly Val Trp Arg Thr Glu Ala Pro Pro Arg Arg Arg Ala  
35 40 45  
Cys Gly Leu Gly Thr Ser Ser Pro Thr Ser Thr Gly Ser Gln Cys Trp  
50 55 60  
Gly Trp Cys Thr Trp Thr Ser Trp Ser Cys Cys Glx Arg Ala Ala Thr  
65 70 75 80  
Arg Tyr Pro Cys Gly Pro Gln Pro Trp Arg Ile His Arg Asp  
85 90

<210> 322  
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<220>  
<223> 6CAF forward primer

<400> 322  
tcggatccat gtgaccagag ttcgg 25

<210> 323  
<211> 24  
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<220>  
<223> 7CAR reverse primer

<400> 323  
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<210> 324  
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<212> DNA  
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<223> 62MPF forward primer

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<210> 325  
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<210> 347  
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 <223> 156NOR reverse primer  
  
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 <223> 247PTF forward primer  
  
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 ctggaattcg ccttgaaact acaagttc 28

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<210> 381  
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<210> 382  
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<210> 383  
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